California Board of Registered Nursing

2007-2008 Annual School Report

Data Summary and Historical Trend Analysis

A Presentation of Pre-Licensure Nursing Education Programs in California

Southern California II Orange, Riverside and San Bernardino Counties

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INTRODUCTION

Each year, the California Board of Registered Nursing (BRN) requires all pre-licensure registered nursing programs in California to complete a survey detailing statistics of their programs, students and faculty. The survey collects data from August 1 through July 31. Information gathered from these surveys is compiled into a database and used to analyze trends in nursing education.

The BRN commissioned the University of California, San Francisco (UCSF) to conduct a historical analysis of data collected from the 2000-2001 survey through the 2007-2008 survey. In this report, we present eight years of historical data from the BRN Annual School Survey. Data analyses were conducted statewide and for nine economic regions¹ in California, with a separate report for each region. All reports are available on the BRN website (http://www.rn.ca.gov/).

This report presents data from the 3-county Southern California II region. Counties in the region include Orange, Riverside and San Bernardino. All data are presented in aggregate form and describe overall trends in the areas and over the times specified and, therefore, may not be applicable to individual nursing education programs. Additional data from the past eight years of the BRN Annual School Survey are available in an interactive database on the BRN website.

¹ The nine regions include: (1) Northern California, (2) Northern Sacramento Valley, (3) Greater Sacramento, (4) Bay Area, (5) San Joaquin Valley, (7) Central Coast, (8) Southern California I (Los Angeles and Ventura counties), (9) Southern California II (Orange, Riverside, and San Bernardino counties), and (10) Southern Border Region. Counties within each region are detailed in the corresponding regional report. The Central Sierra (Region 6) does not have any nursing education programs and was, therefore, not included in the analyses.

DATA SUMMARY AND HISTORICAL TREND ANALYSES

This analysis presents pre-licensure program data from the 2007-2008 BRN School Survey in comparison with data from previous years of the survey. Data items addressed include the number of nursing programs, enrollments, completions, retention rates and student and faculty census data.

Trends in Pre-Licensure Nursing Programs

Number of Nursing Programs

In 2007-2008, there were 18 nursing programs in the Southern California II Region that led to RN licensure. Of these programs, 12 are ADN programs, four are BSN programs, and two are ELM programs. The majority (83.3%) of pre-licensure nursing programs in the Southern California II region are public.

Number of Nursing Programs

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		Academic Year								
	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005	2005- 2006	2006- 2007	2007- 2008		
Total # Nursing Programs	12	12	12	12	13	13	16	18		
ADN Programs	10	10	10	10	11	11	11	12		
BSN Programs	2	2	2	2	2	2	4	4		
ELM Programs							1	2		
Public Programs	11	11	11	11	12	12	15	15		
Private Programs	1	1	1	1	1	1	1	3		

Admission Spaces and New Student Enrollments

Admission spaces available for new student enrollments increased by 62.9% (n=612) in the past eight years, from 972 spaces in 2000-2001 to 1,584 in 2007-2008. These spaces were filled with a total of 1,724 students, increasing new student enrollment by 82.8% (n=781) from 2000-2001.

Although programs in the region grew dramatically over the eight-year period, the past year shows a slight drop (2.2%) in new student enrollments in comparison to the previous year.

Availability and Utilization of Admission Spaces

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		Academic Year								
	2000-	2001-	2002-	2003-	2004-	2005-	2006-	2007-		
	2001	2002	2003	2004	2005	2006	2007	2008		
Spaces Available	972	1,079	1,117	1,127	1,192	1,296	1,493	1,584		
New Student Enrollments	943	1,047	1,117	1,153	1,189	1,377	1,762	1,724		
% Spaces Filled	97.0%	97.0%	100.0%	102.3%	99.7%	106.3%	118.0%	108.8%		

The number of qualified applications to Southern California II nursing programs increased by 68.2% (n=2,102) in the last year. Due to the disparity in the number of spaces available and the number of qualified applications received, the share of qualified applications not accepted for admission rose from 42.8% in 2006-2007 to 66.7% in 2007-2008.

Applications Accepted and Not Accepted for Admission

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		Academic Year									
	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005	2005- 2006	2006- 2007	2007- 2008			
Qualified Applications	1,630	1,734	1,944	3,226	3,245	3,454	3,080	5,182			
Accepted	943	1,047	1,117	1,153	1,189	1,377	1,762	1,724			
Not Accepted	687	687	827	2,073	2,056	2,077	1,318	3,458			
% Qualified Applications Not Accepted	42.1%	39.6%	42.5%	64.3%	63.4%	60.1%	42.8%	66.7%			

^{**}Since these data represent applications rather than individuals, an increase in qualified applications may not represent equal growth in the number of individuals applying to nursing school.

Although new student enrollments in all types of pre-licensure nursing education programs have increased since 2000-2001, enrollments in ADN, BSN and public programs have decreased for the first time in several years. Despite these changes, the majority of nursing students in the region continue to be educated through public ADN programs.

New Student Enrollment by Program Type

		Academic Year								
	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005	2005- 2006	2006- 2007	2007- 2008		
New Student Enrollment	943	1,047	1,117	1,153	1,189	1,377	1,762	1,724		
ADN	729	842	905	935	966	1,216	1,473	1,442		
BSN	214	205	212	218	223	161	289	211		
ELM								71		
Private								133		
Public	828	930	991	1,027	1,054	1,337	1,704	1,591		

Student Completions

The number of students who completed a nursing program in the Southern California II region increased by 57.2% (n=422), from 738 in 2000-2001 to 1,160 in 2007-2008. Of the 1,160 students that completed a nursing program in the Southern California II region in 2007-2008, 91.1% (n=1,057) of them completed an ADN program and 8.9% (n=103) completed a BSN program.

Student Completions

		Academic Year								
	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005	2005- 2006	2006- 2007	2007- 2008		
Student Completion	738	767	751	956	999	929	1,022	1,160		
ADN	619	638	620	786	862	845	950	1,057		
BSN	119	129	131	170	137	84	72	103		
ELM							0	0		

Retention Rate

Of the 1,168 students scheduled to complete a nursing program in the 2007-2008 academic year, 72.8% (n=850) completed the program on-time, 12.8% (n=149) are still enrolled in the program, and 14.5% (n=169) dropped out or were disqualified from the program. The retention rate has remained around 72% for the past two years.

Student Cohort Completion and Retention Data

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		Academic Year									
	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005	2005- 2006	2006- 2007	2007- 2008			
Enrollment	1,099	1,211	1,076	1,353	1,272	1,005	1,021	1,168			
Completed On Time	699	745	667	970	886	743	737	850			
Still Enrolled	179	279	198	170	130	79	116	149			
Attrition	221	187	211	213	256	183	168	169			
Retention Rate*	63.6%	61.5%	62.0%	71.7%	69.7%	73.9%	72.2%	72.8%			
Attrition Rate	20.1%	15.4%	19.6%	15.7%	20.1%	18.2%	16.5%	14.5%			
% Still Enrolled	16.3%	23.1%	18.4%	12.6%	10.2%	7.9%	11.3%	12.8%			

^{*}Retention rate = (students who completed the program on-time) / (enrollment)

Trends in attrition by program type show that BSN programs have lower attrition rates than ADN programs. Attrition rates in all program types have improved since 2000-2001.

Attrition Rates by Program Type

		Academic Year									
Program Type	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005	2005- 2006	2006- 2007	2007- 2008			
ADN	21.4%	14.9%	20.4%	16.7%	21.2%	19.5%	17.7%	15.7%			
BSN	12.3%	18.8%	14.9%	9.9%	12.7%	3.6%	0.0%	2.7%			
ELM								**			
Private								**			
Public	20.8%	14.5%	20.1%	16.5%	20.4%	18.2%	16.5%	14.5%			

^{**}These data were not reported.

There has been fluctuation in the retention and attrition rates over the eight-year period documented in the above tables. There were changes to the survey between 2003-2004 and 2004-2005, and between 2004-2005 and 2005-2006 that may have affected the comparability of these data over time.

Student Census Data

The total number of students enrolled in Southern California II nursing programs increased by 80.5% (n=1,486), from 1,846 on October 15, 2001 to 3,332 on October 15, 2008.

The reported number of pre-nursing students increased from 1,184 in 2007 to 2,536 in 2008. This increase may be due to more programs reporting data than to an actual increase in the number of pre-nursing students.

Student Census Data

		Academic Year								
Dunaurama Tunada	2000-	2001-	2002-	2003-	2004-	2005-	2006-	2007-		
Program Track	2001	2002	2003	2004	2005	2006	2007	2008		
ADN Program	1,467	1,648	1,553	1,784	1,927	2,109	2,336	2,471		
BSN Program	379	511	599	636	656	341	613	736		
ELM Program								125		
Total Nursing Students	1,846	2,159	2,152	2,420	2,583	2,450	3,012	3,332		
Pre-Nursing Students					4,322	3,004	1,184	2,536		

^{*}Blank cells indicated that the applicable information was not requested in the given year.

Clinical Simulation in Nursing Education

Data show that 62.5% (n=10) of the sixteen nursing schools in the Southern California II region used a clinical simulation center² between 8/1/07 and 7/31/08. The majority of schools that use clinical simulation centers reported that they use these facilities to make up for clinical experiences and to check clinical competencies. Data gathered also show that 70.0% of the ten nursing schools that currently use a clinical simulation center have plans to expand it.

Reasons for Using a Clinical Simulation Center*	2007-2008
To standardize clinical experiences	70.0%
To provide clinical experience not available in a clinical setting	70.0%
To check clinical competencies	80.0%
To make up for clinical experiences	90.0%
To increase capacity in your nursing program	10.0%
Number of schools that use a clinical simulation center	10

*These data were collected for the first time in 2006-2007. However, changes in these questions for the 2007-2008 administration of the survey and lack of confidence in the reliability of the 2006-2007 data prevent comparability of the data. Therefore, data from previous years of the survey are not shown.

² Clinical Simulation Center/Experience - students have a simulated real-time nursing care experience using hi-fidelity mannequins and clinical scenarios, which allow them to integrate, apply, and refine specific skills and abilities that are based on theoretical concepts and scientific knowledge. The experience includes videotaping, de-briefing and dialogue as part of the learning process.

Faculty Census Data

The total number of nursing faculty in the Southern California II region has increased by 87.1% (n=229) since October 15, 2001. On October 15, 2008, there were 492 total nursing faculty in the Southern California II region. Of these faculty, 41.3% (n=203) were full-time and 58.7% (n=289) were part-time.

Despite an increase in the total number of faculty in the region, the need for faculty remains high. On October 15, 2008, there were 27 vacant faculty positions in the Southern California II region. These vacancies represent a 5.2% faculty vacancy rate, the highest vacancy rate reported in eight years.

Faculty Data

		Academic Year								
	2000- 2001	2001- 2002	2002- 2003	2003- 2004	2004- 2005*	2005- 2006	2006- 2007	2007- 2008		
Total Faculty	263	260	259	304	338	288	419	492		
Full-time	163	167	146	171	156	129	196	203		
Part-time	100	93	113	133	127	159	223	289		
Vacancy Rate**		4.8%	2.3%	0.3%	2.0%	3.0%	3.7%	5.2%		
Vacancies		13	6	1	7	9	16	27		

In 2004-2005, 2005-2006 and 2006-2007, the sum of full- and part-time faculty did not equal the total faculty reported.

Summary

The Southern California II region has seen the number of qualified applications to its nursing schools more than triple since 2000-2001. Although there was a slight drop in the number of qualified applications between 2005-2006 and 2006-2007, there was a sharp increase (68.2%) in qualified applications in 2007-2008. Since 2000-2001, the number of admission spaces available increased by 63.0% (n=612) and new student enrollments increased by 82.8% (n=781). Even though nursing programs in the region continue to receive more qualified applications than can be accommodated, new student enrollments in the region decreased for the first time in eight years.

Nursing program expansions have led to a growing number of RN graduates in the region. Between 2000-2001 and 2007-2008, graduations increased 57.2% (n=422) in the Southern California II region. Nursing program retention rates have remained around 72% for the past two years.

Expansion in nursing education has required nursing programs to hire more faculty. As a result, Southern California II RN programs reported that they had 27 faculty vacancies in 2007-2008, representing a 5.2% faculty vacancy rate. Without more faculty, RN programs will not be able to continue their expansion.

^{*}Faculty vacancies were estimated based on the vacant FTEs reported.

^{**}Vacancy rate = number of vacancies/(total faculty + number of vacancies)

APPENDIX A - Southern California II Nursing Education Programs

ADN Programs

Chaffey College

College of the Desert

Copper Mountain College

Cypress College

Golden West Community College

Mount San Jacinto College

Riverside Community College

Saddleback College

San Bernardino Valley College

Santa Ana College

Victor Valley College

* West Coast University - Orange County

BSN Programs

California Baptist University CSU Fullerton CSU San Bernardino University of California Irvine

ELM Programs

* California Baptist University CSU Fullerton

^{*} New programs in 2007-2008

APPENDIX B - BRN Education Advisory Committee Members

BRN Education Advisory Committee Members

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